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OM protein - protein search, using sw model

Run on: November 2, 2004, 12:59:33 ; Search time 39 Seconds  
(without alignments)  
406.410 Million cell updates/sec

Title: US-09-887-784-4-X64-X222  
Perfect score: 1267  
Sequence: 1 MVSXGEELFTGVVPLVELD.....VLXGFVTAAGITLGMDELYK 239

Scoring table: BLOSUM62DX  
Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 478139

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents\_AA\*  
1: /cgn2\_6/ptodata/1/1aa/5A\_COMB.pep:\*  
2: /cgn2\_6/ptodata/1/1aa/5B\_COMB.pep:\*  
3: /cgn2\_6/ptodata/1/1aa/6A\_COMB.pep:\*  
4: /cgn2\_6/ptodata/1/1aa/6B\_COMB.pep:\*  
5: /cgn2\_6/ptodata/1/1aa/ECTUS\_COMB.pep:\*  
6: /cgn2\_6/ptodata/1/1aa/backfiles.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES:

Result No.	Score	Query Match	Length	ID	Description
1	1256	99.1	239	3	US-09-172-063-3
2	1256	99.1	239	4	US-09-513-783A-46
3	1256	99.1	239	4	US-09-316-919-4
4	1256	99.1	239	4	US-09-602-641-3
5	1256	99.1	239	4	US-09-920-922-2
6	1256	99.1	239	4	US-09-316-920A-4
7	1256	99.1	239	4	US-09-430-656-46
8	1256	99.1	281	3	US-09-062-102-1
9	1256	99.1	281	3	US-09-364-946-1
10	1256	99.1	294	4	US-09-513-783A-2
11	1256	99.1	294	4	US-09-430-656-2
12	1256	99.1	323	3	US-09-172-063-21
13	1256	99.1	323	4	US-09-602-641-21
14	1256	99.1	364	3	US-09-085-305-6
15	1256	99.1	379	4	US-09-417-197-129
16	1256	99.1	434	4	US-09-800-170-48
17	1256	99.1	442	4	US-09-417-197-127
18	1256	99.1	459	4	US-09-513-783A-170
19	1256	99.1	544	4	US-09-417-197-113
20	1256	99.1	544	4	US-09-417-197-115
21	1256	99.1	604	4	US-09-417-197-59
22	1256	99.1	605	4	US-09-417-197-41
23	1256	99.1	606	4	US-09-417-197-65
24	1256	99.1	607	4	US-09-417-197-47
25	1256	99.1	630	4	US-09-417-197-63
26	1256	99.1	631	4	US-09-417-197-39
27	1256	99.1	633	4	US-09-417-197-45

28	1256	99.1	635	4	US-09-417-197-125	Sequence 125, Appl
29	1256	99.1	642	2	US-08-818-253-2	Sequence 2, Appl
30	1256	99.1	642	2	US-08-818-253-6	Sequence 6, Appl
31	1256	99.1	642	3	US-08-818-252-2	Sequence 2, Appl
32	1256	99.1	642	3	US-08-818-252-6	Sequence 6, Appl
33	1256	99.1	652	2	US-08-818-253-4	Sequence 4, Appl
34	1256	99.1	652	3	US-08-818-252-4	Sequence 4, Appl
35	1256	99.1	718	4	US-09-417-197-75	Sequence 75, Appl
36	1256	99.1	719	4	US-09-417-197-51	Sequence 51, Appl
37	1256	99.1	726	4	US-09-417-197-71	Sequence 71, Appl
38	1256	99.1	727	4	US-09-417-197-139	Sequence 139, Appl
39	1256	99.1	783	4	US-09-513-783A-176	Sequence 176, Appl
40	1256	99.1	797	4	US-09-417-197-141	Sequence 141, Appl
41	1256	99.1	797	4	US-09-417-197-143	Sequence 143, Appl
42	1256	99.1	798	4	US-09-417-197-77	Sequence 77, Appl
43	1256	99.1	805	4	US-09-513-783A-178	Sequence 178, Appl
44	1256	99.1	806	4	US-09-417-197-53	Sequence 53, Appl
45	1256	99.1	836	4	US-09-417-197-61	Sequence 61, Appl

ALIGNMENTS

RESULT 1  
US-09-172-063-3  
; Sequence 3, Application US/09172063  
; Patent No. 6150176  
; GENERAL INFORMATION:  
; APPLICANT: Tsien, Roger Y.  
; APPLICANT: Miyawaki, Atsushi  
; APPLICANT: Llopis, Juan  
; APPLICANT: Wachter, Rebekka M.  
; APPLICANT: Remington, S. James  
; TITLE OF INVENTION: FLUORESCENT PROTEIN SENSORS FOR  
; TITLE OF INVENTION: MEASURING THE PH OF A BIOLOGICAL SAMPLE  
; FILE REFERENCE: 07257/071001  
; CURRENT APPLICATION NUMBER: US/09/172,063  
; CURRENT FILING DATE: 1998-10-13  
; EARLIER APPLICATION NUMBER: 09/094,359  
; EARLIER FILING DATE: 1998-06-09  
; NUMBER OF SEQ ID NOS: 38  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3  
; LENGTH: 239  
; TYPE: PRT  
; ORGANISM: Aequorea victoria  
; FEATURE:  
; NAME/KEY: VARIANT  
; LOCATION: (0)...(0)  
; OTHER INFORMATION: EGFP  
US-09-172-063-3

Query Match 99.1%; Score 1256; DB 3; Length 239;  
Best Local Similarity 98.3%; Pred. No. 1.1e-123;  
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy	1	MVSXGEELFTGVVPLVELDGVNGHKFSVSGEGDATYKGLTLKFLCTTGGKLPVWPPT	60
Db	1	MVSXGEELFTGVVPLVELDGVNGHKFSVSGEGDATYKGLTLKFLCTTGGKLPVWPPT	60
Qy	61	LVTXLSYGVQCFSRYPDHMKQHDFFKSAHPGYVQERTIFFKDDGNKYKTRAEVKEGDTL	120
Db	61	LVTXLSYGVQCFSRYPDHMKQHDFFKSAHPGYVQERTIFFKDDGNKYKTRAEVKEGDTL	120
Qy	121	VNRLEKIDPKEDGNILGHKLEYNHSHNYIIMADKONGIKVNFKIRHNIEDSGVQLA	180
Db	121	VNRLEKIDPKEDGNILGHKLEYNHSHNYIIMADKONGIKVNFKIRHNIEDSGVQLA	180
Qy	181	DHYQONTPIGDPVLLPDNHYLSTQSALS KDPNEKRHDHMLXGFTVTAAGITLGMDELYK	239
Db	181	DHYQONTPIGDPVLLPDNHYLSTQSALS KDPNEKRHDHMLXGFTVTAAGITLGMDELYK	239

RESULT 2  
US-09-513-783A-46  
; Sequence 46, Application US/09513783A  
; Patent No. 6416959  
; GENERAL INFORMATION:  
; APPLICANT: Giuliano, Kenneth A.  
; APPLICANT: Kapur, Ravi  
; TITLE OF INVENTION: A System for Cell Based Screening  
; FILE REFERENCE: 97-022-L1  
; CURRENT APPLICATION NUMBER: US/09/513,783A  
; CURRENT FILING DATE: 2000-02-25  
; NUMBER OF SEQ ID NOS: 180  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 46  
; LENGTH: 239  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: EGFP  
US-09-513-783A-46  
Query Match 99.1%; Score 1256; DB 4; Length 239;  
Best Local Similarity 98.3%; Pred. No. 1.1e-123;  
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;  
QY 1 MVSKEELFTGVVPIVLVDGVDVNGHKFVSVEGEGDATYKLTAKFICTTGKLPVWPWT 60  
DB 1 MVSKEELFTGVVPIVLVDGVDVNGHKFVSVEGEGDATYKLTAKFICTTGKLPVWPWT 60  
QY 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120  
DB 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120  
QY 121 VNRIELKIDFKEDGNILGHKLEYNYNHSHVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180  
DB 121 VNRIELKIDFKEDGNILGHKLEYNYNHSHVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180  
QY 181 DHYQONTPIGDPVLLPDNHYLSTQSALS KDPNEKRDMHVLXGFTAAAGITLGMDELYK 239  
DB 181 DHYQONTPIGDPVLLPDNHYLSTQSALS KDPNEKRDMHVLXGFTAAAGITLGMDELYK 239

RESULT 3  
US-09-316-919-4  
; Sequence 4, Application US/09316919  
; Patent No. 6469154  
; GENERAL INFORMATION:  
; APPLICANT: Tsien, Roger Y.  
; APPLICANT: Baird, Geoffrey  
; TITLE OF INVENTION: FLUORESCENT PROTEIN INDICATORS  
; FILE REFERENCE: 07257/073001 US/09/316,919  
; CURRENT APPLICATION NUMBER: US/09/316,919  
; CURRENT FILING DATE: 1999-05-21  
; NUMBER OF SEQ ID NOS: 63  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 4  
; LENGTH: 239  
; TYPE: PRT  
; ORGANISM: Aequorea victoria  
US-09-316-919-4  
Query Match 99.1%; Score 1256; DB 4; Length 239;  
Best Local Similarity 98.3%; Pred. No. 1.1e-123;  
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;  
QY 1 MVSKEELFTGVVPIVLVDGVDVNGHKFVSVEGEGDATYKLTAKFICTTGKLPVWPWT 60  
DB 1 MVSKEELFTGVVPIVLVDGVDVNGHKFVSVEGEGDATYKLTAKFICTTGKLPVWPWT 60  
QY 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120  
DB 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120

QY 121 VNRIELKIDFKEDGNILGHKLEYNYNHSHVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180  
DB 121 VNRIELKIDFKEDGNILGHKLEYNYNHSHVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180  
QY 181 DHYQONTPIGDPVLLPDNHYLSTQSALS KDPNEKRDMHVLXGFTAAAGITLGMDELYK 239  
DB 181 DHYQONTPIGDPVLLPDNHYLSTQSALS KDPNEKRDMHVLXGFTAAAGITLGMDELYK 239  
RESULT 4  
US-09-602-641-3  
; Sequence 3, Application US/09602641  
; Patent No. 6608189  
; GENERAL INFORMATION:  
; APPLICANT: Tsien, Roger Y.  
; APPLICANT: Miyawaki, Atsushi  
; APPLICANT: Llopis, Juan  
; APPLICANT: Wächter, Rebekka M.  
; APPLICANT: Remington, S. James  
; TITLE OF INVENTION: FLUORESCENT PROTEIN SENSORS FOR  
; TITLE OF INVENTION: MEASURING THE PH OF A BIOLOGICAL SAMPLE  
; FILE REFERENCE: 07257/071001  
; CURRENT APPLICATION NUMBER: US/09/602,641  
; CURRENT FILING DATE: 2000-06-22  
; PRIOR APPLICATION NUMBER: 09/172,063  
; PRIOR FILING DATE: 1998-10-13  
; NUMBER OF SEQ ID NOS: 38  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3  
; LENGTH: 239  
; TYPE: PRT  
; ORGANISM: Aequorea victoria  
; FEATURE:  
; NAME/KEY: VARIANT  
; LOCATION: (0)...(0)  
; OTHER INFORMATION: EGFP  
US-09-602-641-3

Query Match 99.1%; Score 1256; DB 4; Length 239;  
Best Local Similarity 98.3%; Pred. No. 1.1e-123;  
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;  
QY 1 MVSKEELFTGVVPIVLVDGVDVNGHKFVSVEGEGDATYKLTAKFICTTGKLPVWPWT 60  
DB 1 MVSKEELFTGVVPIVLVDGVDVNGHKFVSVEGEGDATYKLTAKFICTTGKLPVWPWT 60  
QY 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120  
DB 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120  
QY 121 VNRIELKIDFKEDGNILGHKLEYNYNHSHVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180  
DB 121 VNRIELKIDFKEDGNILGHKLEYNYNHSHVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180  
QY 181 DHYQONTPIGDPVLLPDNHYLSTQSALS KDPNEKRDMHVLXGFTAAAGITLGMDELYK 239  
DB 181 DHYQONTPIGDPVLLPDNHYLSTQSALS KDPNEKRDMHVLXGFTAAAGITLGMDELYK 239  
RESULT 5  
US-09-920-922-2  
; Sequence 2, Application US/09920922  
; Patent No. 6673610  
; GENERAL INFORMATION:  
; APPLICANT: Miyawaki, Atsushi  
; APPLICANT: Sawano, Asako  
; TITLE OF INVENTION: METHOD FOR MUTAGENESIS  
; FILE REFERENCE: 11283-012001  
; CURRENT APPLICATION NUMBER: US/09/920,922  
; CURRENT FILING DATE: 2001-08-02  
; PRIOR APPLICATION NUMBER: JP 2000-237166  
; PRIOR FILING DATE: 2000-08-04  
; NUMBER OF SEQ ID NOS: 9

SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 2  
LENGTH: 239  
TYPE: PRT  
ORGANISM: Aequorea victoria  
US-09-920-922-2

Query Match 99.1%; Score 1256; DB 4; Length 239;  
Best Local Similarity 98.3%; Pred. No. 1.1e-123;  
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;  
QY 1 MVSKEELFTGVVPLVLDGVDVNGHKFSVSGEGGDATYKGLTLKFKICTTGKLPVPWPT 60  
DB 1 MVSKEELFTGVVPLVLDGVDVNGHKFSVSGEGGDATYKGLTLKFKICTTGKLPVPWPT 60  
QY 61 LVTLSYGVQCFSRYPDHMKQHDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKFEGDTL 120  
DB 61 LVTLSYGVQCFSRYPDHMKQHDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKFEGDTL 120  
QY 121 VNRIELKIDFKEDGNILGHKLEYNYNHSHVYIMADKQKNGIKVNFKIRHNIEDGSVQLA 180  
DB 121 VNRIELKIDFKEDGNILGHKLEYNYNHSHVYIMADKQKNGIKVNFKIRHNIEDGSVQLA 180  
QY 181 DHYQONTPIGDPVLLPDNHYLSTQSALSKDPNEKRDHMLXGFTVTAAGITLGMDELYK 239  
DB 181 DHYQONTPIGDPVLLPDNHYLSTQSALSKDPNEKRDHMLXGFTVTAAGITLGMDELYK 239

## RESULT 6

US-09-316-920A-4  
Sequence 4, Application US/09316920A  
Patent No. 6699687

GENERAL INFORMATION:  
APPLICANT: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA  
APPLICANT: Tsien, Roger Y.  
APPLICANT: Baird, Geoffrey  
TITLE OF INVENTION: CIRCULARLY PERMUTED FLUORESCENT PROTEIN INDICATORS  
FILE REFERENCE: REGEN1470  
CURRENT APPLICATION NUMBER: US/09/316,920A  
CURRENT FILING DATE: 1999-05-21  
NUMBER OF SEQ ID NOS: 63  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 4  
LENGTH: 239  
TYPE: PRT  
ORGANISM: Aequorea victoria  
US-09-316-920A-4

Query Match 99.1%; Score 1256; DB 4; Length 239;  
Best Local Similarity 98.3%; Pred. No. 1.1e-123;  
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;  
QY 1 MVSKEELFTGVVPLVLDGVDVNGHKFSVSGEGGDATYKGLTLKFKICTTGKLPVPWPT 60  
DB 1 MVSKEELFTGVVPLVLDGVDVNGHKFSVSGEGGDATYKGLTLKFKICTTGKLPVPWPT 60  
QY 61 LVTLSYGVQCFSRYPDHMKQHDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKFEGDTL 120  
DB 61 LVTLSYGVQCFSRYPDHMKQHDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKFEGDTL 120  
QY 121 VNRIELKIDFKEDGNILGHKLEYNYNHSHVYIMADKQKNGIKVNFKIRHNIEDGSVQLA 180  
DB 121 VNRIELKIDFKEDGNILGHKLEYNYNHSHVYIMADKQKNGIKVNFKIRHNIEDGSVQLA 180  
QY 181 DHYQONTPIGDPVLLPDNHYLSTQSALSKDPNEKRDHMLXGFTVTAAGITLGMDELYK 239  
DB 181 DHYQONTPIGDPVLLPDNHYLSTQSALSKDPNEKRDHMLXGFTVTAAGITLGMDELYK 239

## RESULT 7

US-09-430-656-46  
Sequence 46, Application US/09430656  
Patent No. 6756207

GENERAL INFORMATION:  
APPLICANT: Giuliano, Kenneth A.  
APPLICANT: Bright, Gary  
APPLICANT: Olson, Keith  
APPLICANT: Burroughs-Tencza, Sarah  
TITLE OF INVENTION: A System for Cell Based Screening  
FILE REFERENCE: 97-022-K  
CURRENT APPLICATION NUMBER: US/09/430,656  
CURRENT FILING DATE: 1999-10-29  
PRIOR APPLICATION NUMBER: 09/398,965  
PRIOR FILING DATE: 1999-09-17  
PRIOR APPLICATION NUMBER: 09/031,271  
PRIOR FILING DATE: 1998-02-27  
PRIOR APPLICATION NUMBER: 08/810,983  
PRIOR FILING DATE: 1997-02-27  
PRIOR APPLICATION NUMBER: 60/136,078  
PRIOR FILING DATE: 1999-05-26  
PRIOR APPLICATION NUMBER: 60/106,308  
PRIOR FILING DATE: 1998-10-30  
NUMBER OF SEQ ID NOS: 168  
SOFTWARE: Patent In Ver. 2.0  
SEQ ID NO 46  
LENGTH: 239  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: EGFP  
US-09-430-656-46

Query Match 99.1%; Score 1256; DB 4; Length 239;  
Best Local Similarity 98.3%; Pred. No. 1.1e-123;  
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;  
QY 1 MVSKEELFTGVVPLVLDGVDVNGHKFSVSGEGGDATYKGLTLKFKICTTGKLPVPWPT 60  
DB 1 MVSKEELFTGVVPLVLDGVDVNGHKFSVSGEGGDATYKGLTLKFKICTTGKLPVPWPT 60  
QY 61 LVTLSYGVQCFSRYPDHMKQHDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKFEGDTL 120  
DB 61 LVTLSYGVQCFSRYPDHMKQHDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKFEGDTL 120  
QY 121 VNRIELKIDFKEDGNILGHKLEYNYNHSHVYIMADKQKNGIKVNFKIRHNIEDGSVQLA 180  
DB 121 VNRIELKIDFKEDGNILGHKLEYNYNHSHVYIMADKQKNGIKVNFKIRHNIEDGSVQLA 180  
QY 181 DHYQONTPIGDPVLLPDNHYLSTQSALSKDPNEKRDHMLXGFTVTAAGITLGMDELYK 239  
DB 181 DHYQONTPIGDPVLLPDNHYLSTQSALSKDPNEKRDHMLXGFTVTAAGITLGMDELYK 239

## RESULT 8

US-09-062-102-1  
Sequence 1, Application US/09062102  
Patent No. 6130313

GENERAL INFORMATION:  
APPLICANT: Kain, Steve  
APPLICANT: Li, Xianqiang  
TITLE OF INVENTION: Rapidly Degrading GFP-Fusion Proteins and Methods  
FILE REFERENCE: D6100  
CURRENT APPLICATION NUMBER: US/09/062,102  
CURRENT FILING DATE: 1998-04-17  
EARLIER APPLICATION NUMBER: US 60/060,855  
EARLIER FILING DATE: 1997-10-02  
NUMBER OF SEQ ID NOS: 3  
SEQ ID NO.1  
LENGTH: 281  
TYPE: PRT  
ORGANISM: artificial sequence  
FEATURE:  
OTHER INFORMATION: Sequence of the EGFP-MODC422-461 fusion protein.  
Patent No. 6130313  
US-09-062-102-1

APPLICANT: Kapur, Ravi  
 TITLE OF INVENTION: A System for Cell Based Screening  
 FILE REFERENCE: 97-022-LI  
 CURRENT APPLICATION NUMBER: US/09/513,783A  
 CURRENT FILING DATE: 2000-02-25  
 NUMBER OF SEQ ID NOS: 180  
 SOFTWARE: PatentIn Ver. 2.0  
 SEQ ID NO 2  
 LENGTH: 294  
 TYPE: PRT  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Description of Artificial Sequence:  
 OTHER INFORMATION: GFP-DEVD-Annexin II construct  
 US-09-513-783A-2

Query Match 99.1%; Score 1256; DB 4; Length 294;  
 Best Local Similarity 98.3%; Pred. No. 1.6e-123;  
 Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 MVSKEELFTGVVPIILVELDGVNGHKFVSVEGEGDATYGLTLKFKICTTGKLPVPMPT 60  
 DB 1 MVSKEELFTGVVPIILVELDGVNGHKFVSVEGEGDATYGLTLKFKICTTGKLPVPMPT 60  
 QY 61 LVTXLSYGVQCFRYPDHMKQHDFFKSAMPEGVVOERTIFFKDDGNYKTRAEVKEGDTL 120  
 DB 61 LVTXLSYGVQCFRYPDHMKQHDFFKSAMPEGVVOERTIFFKDDGNYKTRAEVKEGDTL 120  
 QY 121 VNRLEKIGIDFKEDGNILGHKLEYNNSHNHYIMADKQNGIKVNFKIRHNIEDGSVQLA 180  
 DB 121 VNRLEKIGIDFKEDGNILGHKLEYNNSHNHYIMADKQNGIKVNFKIRHNIEDGSVQLA 180  
 QY 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSADPNKRDHMLVXGFVTAAGITLGMDELYK 239  
 DB 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSADPNKRDHMLVXGFVTAAGITLGMDELYK 239

RESULT 11  
 US-09-430-656-2  
 Sequence 2, Application US/09430656  
 Patent No. 6756207  
 GENERAL INFORMATION:  
 APPLICANT: Giuliano, Kenneth A.  
 APPLICANT: Bright, Gary  
 APPLICANT: Olson, Keith  
 APPLICANT: Burroughs-Tencza, Sarah  
 TITLE OF INVENTION: A System for Cell Based Screening  
 FILE REFERENCE: 97-022-K  
 CURRENT APPLICATION NUMBER: US/09/430,656  
 CURRENT FILING DATE: 1999-10-29  
 PRIOR APPLICATION NUMBER: 09/398,965  
 PRIOR FILING DATE: 1999-09-17  
 PRIOR APPLICATION NUMBER: 09/031,271  
 PRIOR FILING DATE: 1998-02-27  
 PRIOR APPLICATION NUMBER: 08/810,983  
 PRIOR FILING DATE: 1997-02-27  
 PRIOR APPLICATION NUMBER: 60/136,078  
 PRIOR FILING DATE: 1999-05-26  
 PRIOR APPLICATION NUMBER: 60/106,308  
 PRIOR FILING DATE: 1998-10-30  
 NUMBER OF SEQ ID NOS: 168  
 SOFTWARE: PatentIn Ver. 2.0  
 SEQ ID NO 2  
 LENGTH: 294  
 TYPE: PRT  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Description of Artificial Sequence:  
 OTHER INFORMATION: GFP-DEVD-Annexin II construct  
 US-09-430-656-2

Query Match 99.1%; Score 1256; DB 4; Length 294;  
 Best Local Similarity 98.3%; Pred. No. 1.6e-123;

Query Match 99.1%; Score 1256; DB 3; Length 281;  
 Best Local Similarity 98.3%; Pred. No. 1.5e-123;  
 Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;  
 QY 1 MVSKEELFTGVVPIILVELDGVNGHKFVSVEGEGDATYGLTLKFKICTTGKLPVPMPT 60  
 DB 1 MVSKEELFTGVVPIILVELDGVNGHKFVSVEGEGDATYGLTLKFKICTTGKLPVPMPT 60  
 QY 61 LVTXLSYGVQCFRYPDHMKQHDFFKSAMPEGVVOERTIFFKDDGNYKTRAEVKEGDTL 120  
 DB 61 LVTXLSYGVQCFRYPDHMKQHDFFKSAMPEGVVOERTIFFKDDGNYKTRAEVKEGDTL 120  
 QY 121 VNRLEKIGIDFKEDGNILGHKLEYNNSHNHYIMADKQNGIKVNFKIRHNIEDGSVQLA 180  
 DB 121 VNRLEKIGIDFKEDGNILGHKLEYNNSHNHYIMADKQNGIKVNFKIRHNIEDGSVQLA 180  
 QY 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSADPNKRDHMLVXGFVTAAGITLGMDELYK 239  
 DB 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSADPNKRDHMLVXGFVTAAGITLGMDELYK 239

RESULT 9  
 US-09-364-946-1  
 Sequence 1, Application US/09364946  
 Patent No. 6306600  
 GENERAL INFORMATION:  
 APPLICANT: Kain, Steve  
 APPLICANT: Li, Xianqiang  
 TITLE OF INVENTION: Rapidly Degrading GFP-Fusion Proteins and Methods  
 FILE REFERENCE: D6100CIP/D2  
 CURRENT APPLICATION NUMBER: US/09/364,946  
 CURRENT FILING DATE: 1999-07-30  
 EARLIER APPLICATION NUMBER: US 09/191,233  
 EARLIER FILING DATE: 1998-11-13  
 NUMBER OF SEQ ID NOS: 14  
 SEQ ID NO 1  
 LENGTH: 281  
 TYPE: PRT  
 ORGANISM: artificial sequence  
 FEATURE:  
 OTHER INFORMATION: Sequence of the EGFP-MODC422-461 fusion protein.  
 Patent No. 6306600  
 US-09-364-946-1

Query Match 99.1%; Score 1256; DB 3; Length 281;  
 Best Local Similarity 98.3%; Pred. No. 1.5e-123;  
 Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;  
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 DB 1 MVSKEELFTGVVPIILVELDGVNGHKFVSVEGEGDATYGLTLKFKICTTGKLPVPMPT 60  
 QY 61 LVTXLSYGVQCFRYPDHMKQHDFFKSAMPEGVVOERTIFFKDDGNYKTRAEVKEGDTL 120  
 DB 61 LVTXLSYGVQCFRYPDHMKQHDFFKSAMPEGVVOERTIFFKDDGNYKTRAEVKEGDTL 120  
 QY 121 VNRLEKIGIDFKEDGNILGHKLEYNNSHNHYIMADKQNGIKVNFKIRHNIEDGSVQLA 180  
 DB 121 VNRLEKIGIDFKEDGNILGHKLEYNNSHNHYIMADKQNGIKVNFKIRHNIEDGSVQLA 180  
 QY 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSADPNKRDHMLVXGFVTAAGITLGMDELYK 239  
 DB 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSADPNKRDHMLVXGFVTAAGITLGMDELYK 239

RESULT 10  
 US-09-513-783A-2  
 Sequence 2, Application US/09513783A  
 Patent No. 6416959  
 GENERAL INFORMATION:  
 APPLICANT: Giuliano, Kenneth A.

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: November 2, 2004, 13:08:24 ; Search time 130 Seconds

(without alignments)  
596.058 Million cell updates/sec

Title: US-09-887-784-4-X64-X222

Perfect score: 1267

Sequence: 1 MVSKGEELFTGVPIVLDVNGHGFVTAAGITLGMDELYK 239

Scoring table: BLOSUM62DX

Gapop 10.0 , Gapext 0.5

Searched: 1370721 seqs, 324215800 residues

Total number of hits satisfying chosen parameters: 1370721

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*\*

- 1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*
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- 9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep.\*
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- 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*
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- 15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/1/pubpaa/US10D\_PUBCOMB.pep.\*
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- 18: /cgn2\_6/ptodata/1/pubpaa/US11\_NEW\_PUB.pep.\*
- 19: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
- 20: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1267	100.0	239	9	US-09-887-784-4
2	1267	100.0	239	15	US-10-296-953-4
3	1267	100.0	363	14	US-10-270-223-6
4	1267	100.0	893	14	US-10-257-909A-30
5	1267	100.0	1132	14	US-10-257-909A-32
6	1259	99.4	239	9	US-09-887-784-2
7	1259	99.4	239	15	US-10-296-953-2
8	1256	99.1	239	9	US-09-920-922-2
9	1256	99.1	239	9	US-09-999-745-4
10	1256	99.1	239	10	US-09-866-538-4
11	1256	99.1	239	10	US-09-797-4968-2
12	1256	99.1	239	10	US-09-794-308-4
13	1256	99.1	239	10	US-09-865-291-4

14	1256	99.1	239	14	US-10-121-258-13	Sequence 13, Appl
15	1256	99.1	239	14	US-10-221-461-7	Sequence 7, Appl
16	1256	99.1	239	14	US-10-100-957A-46	Sequence 46, Appl
17	1256	99.1	239	14	US-10-177-390-2	Sequence 2, Appl
18	1256	99.1	239	14	US-10-338-411-3	Sequence 3, Appl
19	1256	99.1	239	14	US-10-457-982-3	Sequence 3, Appl
20	1256	99.1	239	14	US-10-370-570-4	Sequence 4, Appl
21	1256	99.1	239	15	US-10-389-640-3	Sequence 3, Appl
22	1256	99.1	239	16	US-10-724-178-3	Sequence 3, Appl
23	1256	99.1	259	14	US-10-314-861-11	Sequence 11, Appl
24	1256	99.1	265	16	US-10-706-763-4	Sequence 4, Appl
25	1256	99.1	281	9	US-09-931-232-1	Sequence 1, Appl
26	1256	99.1	288	14	US-10-314-861-37	Sequence 37, Appl
27	1256	99.1	293	14	US-10-314-861-35	Sequence 35, Appl
28	1256	99.1	294	14	US-10-100-957A-2	Sequence 2, Appl
29	1256	99.1	295	14	US-10-314-861-39	Sequence 39, Appl
30	1256	99.1	299	14	US-10-314-861-33	Sequence 33, Appl
31	1256	99.1	305	14	US-10-314-861-31	Sequence 31, Appl
32	1256	99.1	308	14	US-10-033-717-35	Sequence 35, Appl
33	1256	99.1	311	14	US-10-314-861-29	Sequence 29, Appl
34	1256	99.1	320	14	US-10-338-411-11	Sequence 11, Appl
35	1256	99.1	320	15	US-10-389-640-11	Sequence 11, Appl
36	1256	99.1	323	14	US-10-338-411-7	Sequence 7, Appl
37	1256	99.1	323	14	US-10-338-411-13	Sequence 13, Appl
38	1256	99.1	323	14	US-10-457-982-21	Sequence 21, Appl
39	1256	99.1	323	15	US-10-389-640-7	Sequence 7, Appl
40	1256	99.1	323	15	US-10-389-640-13	Sequence 13, Appl
41	1256	99.1	324	14	US-10-314-861-16	Sequence 16, Appl
42	1256	99.1	345	14	US-10-338-411-5	Sequence 5, Appl
43	1256	99.1	345	15	US-10-389-640-5	Sequence 5, Appl
44	1256	99.1	346	14	US-10-338-411-9	Sequence 9, Appl
45	1256	99.1	346	15	US-10-389-640-9	Sequence 9, Appl

ALIGNMENTS

RESULT 1

US-09-887-784-4  
; Sequence 4, Application US/09887784  
; Patent No. US2002017189A1  
; GENERAL INFORMATION:  
; APPLICANT: BJORN, Sara et al  
; TITLE OF INVENTION: NOVEL FLUORESCENT PROTEINS  
; FILE REFERENCE: 3759-0115P  
; CURRENT APPLICATION NUMBER: US/09/887,784  
; CURRENT FILING DATE: 2001-06-19  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: Patent in version 3.0  
; SEQ ID NO 4  
; LENGTH: 239  
; TYPE: PPT  
; ORGANISM: Aequoria Victoria  
US-09-887-784-4

Query Match 100.0%; Score 1267; DB 9; Length 239;  
Best Local Similarity 99.2%; Pred. No. 2.7e-112;  
Matches 237; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MVSKGEELFTGVPIVLDVNGHGFVTAAGITLGMDELYK 60
Db	1	MVSKGEELFTGVPIVLDVNGHGFVTAAGITLGMDELYK 60
Qy	61	LVTVLSVGVQCFSPYDPHMKQHDFFKSAMPGYVQERTIFFKDDGNKYKTRAEVKFEGDTL 120
Db	61	LVTVLSVGVQCFSPYDPHMKQHDFFKSAMPGYVQERTIFFKDDGNKYKTRAEVKFEGDTL 120
Qy	121	VNRLELKGIDFKEDGNILGHKLEYNHNHYVIMADKQKNGIKVNFKIRHNIEDGSVQLA 180
Db	121	VNRLELKGIDFKEDGNILGHKLEYNHNHYVIMADKQKNGIKVNFKIRHNIEDGSVQLA 180
Qy	181	DHYQNTPTIGDPVLLPDPNHYLSQTQSLKSPNEKRHMVLXGFTVTAAGITLGMDELYK 239
Db	181	DHYQNTPTIGDPVLLPDPNHYLSQTQSLKSPNEKRHMVLXGFTVTAAGITLGMDELYK 239

Db 181 DHYQNTPTIGDGPVLLPDNHNHLSQSALSKDPNEKRDHMLVLLGFVTAAGITLGMDELYK 239

RESULT 2

US-10-296-953-4

; Sequence 4, Application US/10296953

; Publication No. US20040072995A1

; GENERAL INFORMATION:

; APPLICANT: PAGLIARO, LENA

; APPLICANT: BJORN, SARA P.

; APPLICANT: THASTRUP, OLE

; TITLE OF INVENTION: NOVEL FLUORESCENT PROTEINS

; FILE REFERENCE: PL0095

; CURRENT APPLICATION NUMBER: US/10/296,953

; CURRENT FILING DATE: 2002-11-26

; PRIOR APPLICATION NUMBER: PA 2000 00953

; PRIOR FILING DATE: 2000-06-19

; PRIOR APPLICATION NUMBER: 60/212,681

; PRIOR FILING DATE: 2000-06-20

; PRIOR APPLICATION NUMBER: 60/290,170

; PRIOR FILING DATE: 2001-05-10

; PRIOR APPLICATION NUMBER: PA 2001 00739

; PRIOR FILING DATE: 2001-05-10

; NUMBER OF SEQ ID NOS: 24

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 4

; LENGTH: 239

; TYPE: PRT

; ORGANISM: Aequorea victoria

US-10-296-953-4

Query Match

Best Local Similarity 100.0%; Score 1267; DB 15; Length 239;

Matches 237; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MVSKEELFTGVVPIVLVDGVDVNGHKFSVSGEGDGYKLTILKFICTTGKLPVPWPT 60

Qy 61 LVTXLSYGVQCFSRYPDHMKQHDFFKFSAMPEGVYVQERTIFFKDDGNYKTRAEVKFEGDTL 120

Db 61 LVTXLSYGVQCFSRYPDHMKQHDFFKFSAMPEGVYVQERTIFFKDDGNYKTRAEVKFEGDTL 120

Qy 121 VNRLELKGIDFKEDGNILGHKLEYNNSHNVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180

Db 121 VNRLELKGIDFKEDGNILGHKLEYNNSHNVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180

Qy 181 DHYQNTPTIGDGPVLLPDNHNHLSQSALSKDPNEKRDHMLVLLGFVTAAGITLGMDELYK 239

Db 181 DHYQNTPTIGDGPVLLPDNHNHLSQSALSKDPNEKRDHMLVLLGFVTAAGITLGMDELYK 239

RESULT 3

US-10-270-223-6

; Sequence 6, Application US/10270223

; Publication No. US20030143634A1

; GENERAL INFORMATION:

; APPLICANT: BioImage A/S

; TITLE OF INVENTION: AN IMPROVED METHOD TO DETECT INTERACTIONS BETWEEN CELLULAR COMPOUNDS

; TITLE OF INVENTION: INTERACTING LIVING CELLS, AND TO EXTRACT QUANTITATIVE INFORMATION RE

; TITLE OF INVENTION: INTERACTIONS BY FLUORESCENCE REDISTRIBUTION.

; FILE REFERENCE: 3759-0126P

; CURRENT APPLICATION NUMBER: US/10/270,223

; CURRENT FILING DATE: 2002-10-11

; NUMBER OF SEQ ID NOS: 12

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 6

; LENGTH: 363

; TYPE: PRT

; ORGANISM: Aequorea Victoria and Human

US-10-270-223-6

Query Match

100.0%; Score 1267; DB 14; Length 363;

Best Local Similarity 99.2%; Pred. No. 4.8e-112; Indels 0; Gaps 0; Matches 237; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MVSKEELFTGVVPIVLVDGVDVNGHKFSVSGEGDGYKLTILKFICTTGKLPVPWPT 60

Db 1 MVSKEELFTGVVPIVLVDGVDVNGHKFSVSGEGDGYKLTILKFICTTGKLPVPWPT 60

Qy 61 LVTXLSYGVQCFSRYPDHMKQHDFFKFSAMPEGVYVQERTIFFKDDGNYKTRAEVKFEGDTL 120

Db 61 LVTXLSYGVQCFSRYPDHMKQHDFFKFSAMPEGVYVQERTIFFKDDGNYKTRAEVKFEGDTL 120

Qy 121 VNRLELKGIDFKEDGNILGHKLEYNNSHNVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180

Db 121 VNRLELKGIDFKEDGNILGHKLEYNNSHNVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180

Qy 181 DHYQNTPTIGDGPVLLPDNHNHLSQSALSKDPNEKRDHMLVLLGFVTAAGITLGMDELYK 239

Db 181 DHYQNTPTIGDGPVLLPDNHNHLSQSALSKDPNEKRDHMLVLLGFVTAAGITLGMDELYK 239

RESULT 4

US-10-257-909A-30

; Sequence 30, Application US/10257909A

; Publication No. US20030187056A1

; GENERAL INFORMATION:

; APPLICANT: Bernard R. TERRY et al.

; TITLE OF INVENTION: Live cell procedures to identify compounds modulating intracellular

; TITLE OF INVENTION: distribution of phosphodiesterase (PDE) enzymes

; FILE REFERENCE: 3759-0125P

; CURRENT APPLICATION NUMBER: US/10/257,909A

; CURRENT FILING DATE: 2002-10-17

; NUMBER OF SEQ ID NOS: 36

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 30

; LENGTH: 893

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Fusion between Aequorea victoria and human

US-10-257-909A-30

Query Match

100.0%; Score 1267; DB 14; Length 893;

Best Local Similarity 99.2%; Pred. No. 1.7e-111; Indels 0; Gaps 0; Matches 237; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MVSKEELFTGVVPIVLVDGVDVNGHKFSVSGEGDGYKLTILKFICTTGKLPVPWPT 60

Db 655 MVSKEELFTGVVPIVLVDGVDVNGHKFSVSGEGDGYKLTILKFICTTGKLPVPWPT 714

Qy 61 LVTXLSYGVQCFSRYPDHMKQHDFFKFSAMPEGVYVQERTIFFKDDGNYKTRAEVKFEGDTL 120

Db 715 LVTXLSYGVQCFSRYPDHMKQHDFFKFSAMPEGVYVQERTIFFKDDGNYKTRAEVKFEGDTL 774

Qy 121 VNRLELKGIDFKEDGNILGHKLEYNNSHNVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180

Db 775 VNRLELKGIDFKEDGNILGHKLEYNNSHNVYIMADKQNGIKVNFKIRHNIEDGSVOLA 834

Qy 181 DHYQNTPTIGDGPVLLPDNHNHLSQSALSKDPNEKRDHMLVLLGFVTAAGITLGMDELYK 239

Db 835 DHYQNTPTIGDGPVLLPDNHNHLSQSALSKDPNEKRDHMLVLLGFVTAAGITLGMDELYK 893

RESULT 5

US-10-257-909A-32

; Sequence 32, Application US/10257909A

; Publication No. US20030187056A1

; GENERAL INFORMATION:

; APPLICANT: Bernard R. TERRY et al.

; TITLE OF INVENTION: Live cell procedures to identify compounds modulating intracellular

; TITLE OF INVENTION: distribution of phosphodiesterase (PDE) enzymes

; FILE REFERENCE: 3759-0125P

; CURRENT APPLICATION NUMBER: US/10/257,909A

; CURRENT FILING DATE: 2002-10-17

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Db	1	MVSGBELFTGVVPILVELDGDVNGHKFSPVSGEGGDATYGKLTLPKFTCTTGKLPVPWPT	60						
Qy	61	LVTKLSYGVCFSYYPDHMKQKHDFPKSAMPEGYVOERTIIPFKDGNKYKTRAEVFEKGGDTL	120						
Db	61	LVTTLTLYGVQCFSYYPDHMKQKHDFPKSAMPEGYVOERTIIPFKDGNKYKTRAEVFEKGGDTL	120						
Qy	121	VNRIELKGIIDFKEDGNILGHKLEYNYSNHNVIIMADKQKNGIKVNFKIRHNIEDGSVOLA	180						
Db	121	VNRIELKGIIDFKEDGNILGHKLEYNYSNHNVIIMADKQKNGIKVNFKIRHNIEDGSVOLA	180						
Qy	181	DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLVUXFVTTAAGITLGMDELYK	239						
Db	181	DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLVFFVTTAAGITLGMDELYK	239						

## RESULT 12

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US-09-172-063-21
; Sequence 21, Application US/09172063
; Patent No. 6150176
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger Y.
; APPLICANT: Miyawaki, Atsushi
; APPLICANT: Llopis, Juan
; APPLICANT: Wachter, Rebekka M.
; APPLICANT: Remington, S. James
; TITLE OF INVENTION: FLUORESCENT PROTEIN SENSORS FOR
; TITLE OF INVENTION: MEASURING THE PH OF A BIOLOGICAL SAMPLE
; FILE REFERENCE: 07257/071001
; CURRENT APPLICATION NUMBER: US/09/172.063
; CURRENT FILING DATE: 1998-10-13
; EARLIER APPLICATION NUMBER: 09/094.359
; EARLIER FILING DATE: 1998-06-09
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 21
; LENGTH: 323
; TYPE: PRT
; ORGANISM: Aequorea victoria
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (0)...(0)
; OTHER INFORMATION: GT-EGFP
US-09-172-063-21

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## Query M

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Query Match: 59.1%; Score 1236; DB:3; Length 323;
Best Local Similarity 99.3%; Pred. No. 1.8e-123;
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 MVSGBELFTGVVPILVELDGDVNGHKFVSVEGECDATYGLTLKFICTTGKLPVPWPT 60
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Db 85 MVSGBELFTGVVPILVELDGDVNGHKFVSVEGECDATYGLTLKFICTTGKLPVPWPT 144
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 61 LVTVLSGVGQCFSRYPDHMKQHDFFKSAMPEGVYQERTIFFKDDGNYKTRAEVKFEGETL 120
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 145 LVTTLTGVGQCFSRYPDHMKQHDFFKSAMPEGVYQERTIFFKDDGNYKTRAEVKFEGETL 204
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QY 121 VNRIELKGIIDFKEDGNILGHKLEYNYNSHNYYIMADKQKGIKNVFKIRHNIEDGSVQLA 180
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Db 205 VNRIELKGIIDFKEDGNILGHKLEYNYNSHNYYIMADKQKGIKNVFKIRHNIEDGSVQLA 264
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QY 181 DHYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDRHVLXGFTVTAAGITLGMDELYK 239
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 265 DHYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDRHVLLEPVTAAGITLGMDELYK 323
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RESULT 13
US-09-602-641-21
; Sequence 21, Application US/09602641
Patent No. 6608189

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## RESULT 14

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US-09-085-305-6
; Sequence 6, Application US/09085305
; Patent No. 6191269
; GENERAL INFORMATION:
; APPLICANT: Pollock, Allan
; APPLICANT: Lovett, David H.
; APPLICANT: Turck, Johanna
; TITLE OF INVENTION: Selective Induction of Apoptosis in
; TITLE OF INVENTION: Malignant Cancer Cells by Delivery of N-Terminal
; TITLE OF INVENTION: Interleukin-1-Alpha Pro-Piece Polypeptide
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bozicevic & Reed, LLP
; STREET: 285 Hamilton Ave, Suite 200
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94301
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/085,305
; FILING DATE: 29-MAY-1998

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Qy 121 VNRIELKIDFKEDGNILGHKLEYNVSHNYIIVADKQNGIKVNFKIRHNIEDGSVOLA 180  
Db 261 VNRIELKIDFKEDGNILGHKLEYNVSHNYIIVADKQNGIKVNFKIRHNIEDGSVOLA 320  
Qy 181 DHYQONTPIGDPVLLPDNHYLSQSALSQKDPNEKRDHMLXGFTVTAAGITLGMDELYK 239  
Db 321 DHYQONTPIGDPVLLPDNHYLSQSALSQKDPNEKRDHMLXGFTVTAAGITLGMDELYK 379

Search completed: November 2, 2004, 13:11:16  
Job time : 40 secs

CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Francis, Carol L  
REGISTRATION NUMBER: 36,513  
REFERENCE/DOCKET NUMBER: 6510/102US1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650-327-3400  
TELEFAX: 650-327-3231  
TELEX:  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 364 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-09-085-305-6  
Query Match 99.1%; Score 1256; DB 3; Length 364;  
Best Local Similarity 98.3%; Pred. No. 2.2e-123;  
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;  
Qy 1 MVSKEELFTGVPIILVELDGVNKGKFSVSGEGGDATYKLTLEKFTCTTGKLPVWPPT 60  
Db 126 MVSKEELFTGVPIILVELDGVNKGKFSVSGEGGDATYKLTLEKFTCTTGKLPVWPPT 185  
Qy 61 LVTLXSVGQCFRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120  
Db 186 LVTLTYGVQCFRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 245  
Qy 121 VNRIELKIDFKEDGNILGHKLEYNVSHNYIIVADKQNGIKVNFKIRHNIEDGSVOLA 180  
Db 246 VNRIELKIDFKEDGNILGHKLEYNVSHNYIIVADKQNGIKVNFKIRHNIEDGSVOLA 305  
Qy 181 DHYQONTPIGDPVLLPDNHYLSQSALSQKDPNEKRDHMLXGFTVTAAGITLGMDELYK 239  
Db 306 DHYQONTPIGDPVLLPDNHYLSQSALSQKDPNEKRDHMLXGFTVTAAGITLGMDELYK 364

RESULT 15  
US-09-417-197-129  
Sequence 129, Application US/09417197  
Patent No. 6518021  
GENERAL INFORMATION:  
APPLICANT: Ole THASTRUP, et al.  
TITLE OF INVENTION: A Method For Extracting Quantitative Information Relating To An  
TITLE OF INVENTION: On A Cellular Response  
FILE REFERENCE: 3759-0110P  
CURRENT APPLICATION NUMBER: US/09/417,197  
CURRENT FILING DATE: 1999-10-07  
NUMBER OF SEQ ID NOS: 143  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 129  
LENGTH: 379  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: actin-binding-domain-EGFP fusion  
US-09-417-197-129

Query Match 99.1%; Score 1256; DB 4; Length 379;  
Best Local Similarity 98.3%; Pred. No. 2.3e-123;  
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;  
Qy 1 MVSKEELFTGVPIILVELDGVNKGKFSVSGEGGDATYKLTLEKFTCTTGKLPVWPPT 60  
Db 141 MVSKEELFTGVPIILVELDGVNKGKFSVSGEGGDATYKLTLEKFTCTTGKLPVWPPT 200  
Qy 61 LVTLXSVGQCFRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120  
Db 201 LVTLTYGVQCFRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 260



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; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 32
; LENGTH: 1132
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Fusion between Aequorea victoria and human
US-10-257-909A-32

Query Match          100.0%; Score 1267; DB 14; Length 1132;
Best Local Similarity 99.2%; Pred. No. 2.3e-111;
Matches 237; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 MVSKEELFTGVVPIVLVDGVDVNGHKFVSVEGEGDATYGLTLKFICTTGKLPVPWPT 60
DB 894 MVSKEELFTGVVPIVLVDGVDVNGHKFVSVEGEGDATYGLTLKFICTTGKLPVPWPT 953
QY 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAMPEGVVOERTIFFKDDGNYKTRAEVKEGDTL 120
DB 954 LVTXLSYGVQCFSRYPDHMKQHDFFKSAMPEGVVOERTIFFKDDGNYKTRAEVKEGDTL 1013
QY 121 VNRIELKGIDFKEDGNILGHKLEYNNSHVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180
DB 1014 VNRIELKGIDFKEDGNILGHKLEYNNSHVYIMADKQNGIKVNFKIRHNIEDGSVOLA 1073
QY 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDMHVLXGFVTAAGITLGMDELYK 239
DB 1074 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDMHVLXGFVTAAGITLGMDELYK 1132

RESULT 6
US-09-887-784-2
; Sequence 2, Application US/09887784
; Patent No. US20020177189A1
; GENERAL INFORMATION:
; APPLICANT: BJORN, Sara et al
; TITLE OF INVENTION: NOVEL FLUORESCENT PROTEINS
; FILE REFERENCE: 3759-0115P
; CURRENT APPLICATION NUMBER: US/09/887,784
; CURRENT FILING DATE: 2001-06-19
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 2
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-09-887-784-2

Query Match          99.4%; Score 1259; DB 9; Length 239;
Best Local Similarity 98.7%; Pred. No. 1.6e-111;
Matches 236; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 MVSKEELFTGVVPIVLVDGVDVNGHKFVSVEGEGDATYGLTLKFICTTGKLPVPWPT 60
DB 1 MVSKEELFTGVVPIVLVDGVDVNGHKFVSVEGEGDATYGLTLKFICTTGKLPVPWPT 60
QY 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAMPEGVVOERTIFFKDDGNYKTRAEVKEGDTL 120
DB 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAMPEGVVOERTIFFKDDGNYKTRAEVKEGDTL 120
QY 121 VNRIELKGIDFKEDGNILGHKLEYNNSHVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180
DB 121 VNRIELKGIDFKEDGNILGHKLEYNNSHVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180
QY 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDMHVLXGFVTAAGITLGMDELYK 239
DB 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDMHVLXGFVTAAGITLGMDELYK 239

RESULT 7
US-10-296-953-2
; Sequence 2, Application US/10296953
```

```
; Publication No. US20040072995A1
; GENERAL INFORMATION:
; APPLICANT: BJORN, SARA P.
; APPLICANT: PAGLIARO, LEN
; APPLICANT: THASTRUP, OLE
; TITLE OF INVENTION: NOVEL FLUORESCENT PROTEINS
; FILE REFERENCE: PL0095
; CURRENT APPLICATION NUMBER: US/10/296,953
; CURRENT FILING DATE: 2002-11-26
; PRIOR APPLICATION NUMBER: PA 2000 00953
; PRIOR FILING DATE: 2000-06-19
; PRIOR APPLICATION NUMBER: 60/212,681
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: 60/290,170
; PRIOR FILING DATE: 2001-05-10
; PRIOR APPLICATION NUMBER: PA 2001 00739
; PRIOR FILING DATE: 2001-05-10
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-10-296-953-2

Query Match          99.4%; Score 1259; DB 15; Length 239;
Best Local Similarity 98.7%; Pred. No. 1.6e-111;
Matches 236; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 MVSKEELFTGVVPIVLVDGVDVNGHKFVSVEGEGDATYGLTLKFICTTGKLPVPWPT 60
DB 1 MVSKEELFTGVVPIVLVDGVDVNGHKFVSVEGEGDATYGLTLKFICTTGKLPVPWPT 60
QY 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAMPEGVVOERTIFFKDDGNYKTRAEVKEGDTL 120
DB 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAMPEGVVOERTIFFKDDGNYKTRAEVKEGDTL 120
QY 121 VNRIELKGIDFKEDGNILGHKLEYNNSHVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180
DB 121 VNRIELKGIDFKEDGNILGHKLEYNNSHVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180
QY 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDMHVLXGFVTAAGITLGMDELYK 239
DB 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDMHVLXGFVTAAGITLGMDELYK 239

RESULT 8
US-09-920-922-2
; Sequence 2, Application US/09920922
; Patent No. US20020083488A1
; GENERAL INFORMATION:
; APPLICANT: Miyawaki, Atsushi
; APPLICANT: Sawano, Asako
; TITLE OF INVENTION: METHOD FOR MUTAGENESIS
; FILE REFERENCE: 11283-012001
; CURRENT APPLICATION NUMBER: US/09/920,922
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: JP 2000-237166
; PRIOR FILING DATE: 2000-08-04
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-09-920-922-2

Query Match          99.1%; Score 1256; DB 9; Length 239;
Best Local Similarity 98.3%; Pred. No. 3e-111;
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 MVSKEELFTGVVPIVLVDGVDVNGHKFVSVEGEGDATYGLTLKFICTTGKLPVPWPT 60
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Db 1 MVSKEELFTGVVPILVELDGDVNGHKFVSQSGEGDATYGLTKLTKFICTTGKLPVWPWT 60  
Qy 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120  
Db 61 LVTTLTYGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120  
Qy 121 VNRLEKIDPFKEDGNILGHKLEYNYNHSHVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180  
Db 121 VNRLEKIDPFKEDGNILGHKLEYNYNHSHVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180  
Qy 181 DHYQONTPIGDPVLLPDNHYLSTQSALSKDPNEKRDHMLXGFTVTAAGITLGMDELYK 239  
Db 181 DHYQONTPIGDPVLLPDNHYLSTQSALSKDPNEKRDHMLXGFTVTAAGITLGMDELYK 239

RESULT 9  
US-09-999-745-4  
; Sequence 4, Application US/09999745  
; Patent No. US20020157120A1  
; GENERAL INFORMATION:  
; APPLICANT: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA  
; APPLICANT: Tsien, Roger Y.  
; APPLICANT: Baird, Geoffrey  
; TITLE OF INVENTION: CIRCULARLY PERMUTED FLUORESCENT PROTEIN INDICATORS  
; FILE REFERENCE: REGEN1470-1  
; CURRENT APPLICATION NUMBER: US/09/999,745  
; CURRENT FILING DATE: 2001-10-23  
; PRIOR APPLICATION NUMBER: 09/316,920  
; PRIOR FILING DATE: 1999-05-21  
; NUMBER OF SEQ ID NOS: 67  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 4  
; LENGTH: 239  
; TYPE: PRT  
; ORGANISM: Aequorea victoria  
US-09-999-745-4

Query Match 99.1%; Score 1256; DB 9; Length 239;  
Best Local Similarity 98.3%; Pred. No. 3e-111;  
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MVSKEELFTGVVPILVELDGDVNGHKFVSQSGEGDATYGLTKLTKFICTTGKLPVWPWT 60  
Db 1 MVSKEELFTGVVPILVELDGDVNGHKFVSQSGEGDATYGLTKLTKFICTTGKLPVWPWT 60  
Qy 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120  
Db 61 LVTTLTYGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120  
Qy 121 VNRLEKIDPFKEDGNILGHKLEYNYNHSHVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180  
Db 121 VNRLEKIDPFKEDGNILGHKLEYNYNHSHVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180  
Qy 181 DHYQONTPIGDPVLLPDNHYLSTQSALSKDPNEKRDHMLXGFTVTAAGITLGMDELYK 239  
Db 181 DHYQONTPIGDPVLLPDNHYLSTQSALSKDPNEKRDHMLXGFTVTAAGITLGMDELYK 239

RESULT 10  
US-09-866-538-4  
; Sequence 4, Application US/09866538  
; Publication No. US20030032088A1  
; GENERAL INFORMATION:  
; APPLICANT: REGENTS OF THE UNIVERSITY OF CALIFORNIA  
; APPLICANT: TSIENT, Robert  
; APPLICANT: Campbell, Robert  
; TITLE OF INVENTION: NON-OLIGOMERIZING FLUORESCENT PROTEINS  
; FILE REFERENCE: REGEN1530-2  
; CURRENT APPLICATION NUMBER: US/09/866,538  
; CURRENT FILING DATE: 2001-05-24  
; NUMBER OF SEQ ID NOS: 29  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 4

; LENGTH: 239  
; TYPE: PRT  
; ORGANISM: Aequorea victoria  
US-09-866-538-4

Query Match 99.1%; Score 1256; DB 10; Length 239;  
Best Local Similarity 98.3%; Pred. No. 3e-111;  
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MVSKEELFTGVVPILVELDGDVNGHKFVSQSGEGDATYGLTKLTKFICTTGKLPVWPWT 60  
Db 1 MVSKEELFTGVVPILVELDGDVNGHKFVSQSGEGDATYGLTKLTKFICTTGKLPVWPWT 60  
Qy 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120  
Db 61 LVTTLTYGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120  
Qy 121 VNRLEKIDPFKEDGNILGHKLEYNYNHSHVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180  
Db 121 VNRLEKIDPFKEDGNILGHKLEYNYNHSHVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180  
Qy 181 DHYQONTPIGDPVLLPDNHYLSTQSALSKDPNEKRDHMLXGFTVTAAGITLGMDELYK 239  
Db 181 DHYQONTPIGDPVLLPDNHYLSTQSALSKDPNEKRDHMLXGFTVTAAGITLGMDELYK 239

RESULT 11  
US-09-797-496B-2  
; Sequence 2, Application US/09797496B  
; Publication No. US20030049597A1  
; GENERAL INFORMATION:  
; APPLICANT: Simon, Sanford M.  
; APPLICANT: Chen, Yu  
; TITLE OF INVENTION: Chimeric Fluorescent Enzymes and Uses Thereof  
; FILE REFERENCE: 600-1-267  
; CURRENT APPLICATION NUMBER: US/09/797,496B  
; CURRENT FILING DATE: 2002-05-24  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 2  
; LENGTH: 239  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Aequorea victoria green fluorescent protein modified as described  
US-09-797-496B-2

Query Match 99.1%; Score 1256; DB 10; Length 239;  
Best Local Similarity 98.3%; Pred. No. 3e-111;  
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MVSKEELFTGVVPILVELDGDVNGHKFVSQSGEGDATYGLTKLTKFICTTGKLPVWPWT 60  
Db 1 MVSKEELFTGVVPILVELDGDVNGHKFVSQSGEGDATYGLTKLTKFICTTGKLPVWPWT 60  
Qy 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120  
Db 61 LVTTLTYGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120  
Qy 121 VNRLEKIDPFKEDGNILGHKLEYNYNHSHVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180  
Db 121 VNRLEKIDPFKEDGNILGHKLEYNYNHSHVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180  
Qy 181 DHYQONTPIGDPVLLPDNHYLSTQSALSKDPNEKRDHMLXGFTVTAAGITLGMDELYK 239  
Db 181 DHYQONTPIGDPVLLPDNHYLSTQSALSKDPNEKRDHMLXGFTVTAAGITLGMDELYK 239

RESULT 12  
US-09-794-308-4  
; Sequence 4, Application US/09794308  
; Publication No. US20030170911A1

GENERAL INFORMATION:  
APPLICANT: REGENTS OF THE UNIVERSITY OF CALIFORNIA  
APPLICANT: TSJEN, Roger  
APPLICANT: ZACHARIAS, David  
APPLICANT: BAIRD, Geoffrey  
TITLE OF INVENTION: NON-OLIGOMERIZING FLUORESCENT PROTEINS  
FILE REFERENCE: REGEN1530  
CURRENT APPLICATION NUMBER: US/09/794,308  
CURRENT FILING DATE: 2001-02-26  
NUMBER OF SEQ ID NOS: 25  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 4  
LENGTH: 239  
TYPE: PRT  
ORGANISM: Aequorea victoria  
US-09-794-308-4

Query Match 99.1%; Score 1256; DB 10; Length 239;  
Best Local Similarity 98.3%; Pred. No. 3e-111;  
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;  
QY 1 MVSKEELFTGVVPLVLDGVDVNGHKFSVSSEGGEDATYKGLTLKFKICTTGKLPVPWPT 60  
DB 1 MVSKEELFTGVVPLVLDGVDVNGHKFSVSSEGGEDATYKGLTLKFKICTTGKLPVPWPT 60  
QY 61 LVTLSYGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKEGDTL 120  
DB 61 LVTLSYGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKEGDTL 120  
QY 121 VNRIELKIDPKEDGNILGHKLEYNYNHSHVYIMADKQKNGIKVNFKIRHNIEDGSVOLA 180  
DB 121 VNRIELKIDPKEDGNILGHKLEYNYNHSHVYIMADKQKNGIKVNFKIRHNIEDGSVOLA 180  
QY 181 DHYQONTPIGDPVLLPDNHYLSQTQSALS KDPNEKRDMHVLKGFVTAAGITLGMDELK 239  
DB 181 DHYQONTPIGDPVLLPDNHYLSQTQSALS KDPNEKRDMHVLKGFVTAAGITLGMDELK 239

RESULT 13  
US-09-865-291-4  
Sequence 4, Application US/09865291  
Publication No. US20030186229A1  
GENERAL INFORMATION:  
APPLICANT: REGENTS OF THE UNIVERSITY OF CALIFORNIA  
APPLICANT: TSJEN, Roger  
APPLICANT: TING, Alice  
APPLICANT: ZHANG, Jin  
TITLE OF INVENTION: EMISSION RATIONETRIC INDICATORS OF PHOSPHORYLATION  
FILE REFERENCE: REGEN1550  
CURRENT APPLICATION NUMBER: US/09/865,291  
CURRENT FILING DATE: 2001-05-24  
NUMBER OF SEQ ID NOS: 42  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 4  
LENGTH: 239  
TYPE: PRT  
ORGANISM: Aequorea victoria  
US-09-865-291-4

Query Match 99.1%; Score 1256; DB 10; Length 239;  
Best Local Similarity 98.3%; Pred. No. 3e-111;  
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;  
QY 1 MVSKEELFTGVVPLVLDGVDVNGHKFSVSSEGGEDATYKGLTLKFKICTTGKLPVPWPT 60  
DB 1 MVSKEELFTGVVPLVLDGVDVNGHKFSVSSEGGEDATYKGLTLKFKICTTGKLPVPWPT 60  
QY 61 LVTLSYGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKEGDTL 120  
DB 61 LVTLSYGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKEGDTL 120  
QY 121 VNRIELKIDPKEDGNILGHKLEYNYNHSHVYIMADKQKNGIKVNFKIRHNIEDGSVOLA 180  
DB 121 VNRIELKIDPKEDGNILGHKLEYNYNHSHVYIMADKQKNGIKVNFKIRHNIEDGSVOLA 180

DB 121 VNRIELKIDPKEDGNILGHKLEYNYNHSHVYIMADKQKNGIKVNFKIRHNIEDGSVOLA 180  
QY 181 DHYQONTPIGDPVLLPDNHYLSQTQSALS KDPNEKRDMHVLKGFVTAAGITLGMDELK 239  
DB 181 DHYQONTPIGDPVLLPDNHYLSQTQSALS KDPNEKRDMHVLKGFVTAAGITLGMDELK 239

RESULT 14  
US-10-121-258-13  
Sequence 13, Application US/10121258  
Publication No. US20030059835A1  
GENERAL INFORMATION:  
APPLICANT: Tsien, Roger  
APPLICANT: Campbell, Robert  
TITLE OF INVENTION: MONOMERIC AND DIMERIC FLUORESCENT  
TITLE OF INVENTION: PROTEIN VARIANTS AND METHODS FOR MAKING SAME  
FILE REFERENCE: UC083.1C2CPI  
CURRENT APPLICATION NUMBER: US/10/121,258  
CURRENT FILING DATE: 2002-04-10  
PRIOR APPLICATION NUMBER: 09/794,308  
PRIOR FILING DATE: 2001-02-26  
PRIOR APPLICATION NUMBER: 09/866,538  
PRIOR FILING DATE: 2001-05-24  
NUMBER OF SEQ ID NOS: 78  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 13  
LENGTH: 239  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Enhanced Green Fluorescent Protein (EGFP)  
US-10-121-258-13

Query Match 99.1%; Score 1256; DB 14; Length 239;  
Best Local Similarity 98.3%; Pred. No. 3e-111;  
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;  
QY 1 MVSKEELFTGVVPLVLDGVDVNGHKFSVSSEGGEDATYKGLTLKFKICTTGKLPVPWPT 60  
DB 1 MVSKEELFTGVVPLVLDGVDVNGHKFSVSSEGGEDATYKGLTLKFKICTTGKLPVPWPT 60  
QY 61 LVTLSYGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKEGDTL 120  
DB 61 LVTLSYGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKEGDTL 120  
QY 121 VNRIELKIDPKEDGNILGHKLEYNYNHSHVYIMADKQKNGIKVNFKIRHNIEDGSVOLA 180  
DB 121 VNRIELKIDPKEDGNILGHKLEYNYNHSHVYIMADKQKNGIKVNFKIRHNIEDGSVOLA 180  
QY 181 DHYQONTPIGDPVLLPDNHYLSQTQSALS KDPNEKRDMHVLKGFVTAAGITLGMDELK 239  
DB 181 DHYQONTPIGDPVLLPDNHYLSQTQSALS KDPNEKRDMHVLKGFVTAAGITLGMDELK 239

RESULT 15  
US-10-221-461-7  
Sequence 7, Application US/10221461  
Publication No. US20030092902A1  
GENERAL INFORMATION:  
APPLICANT: Marsh, Donald J.  
TITLE OF INVENTION: MELANIN CONCENTRATING HORMONE RECEPTOR  
TITLE OF INVENTION: CHIMERIC AND FUSION PROTEINS  
FILE REFERENCE: 20652P  
CURRENT APPLICATION NUMBER: US/10/221,461  
CURRENT FILING DATE: 2002-09-12  
PRIOR APPLICATION NUMBER: PCT/US01/08071  
PRIOR FILING DATE: 2001-03-14  
PRIOR APPLICATION NUMBER: 60/189,698  
PRIOR FILING DATE: 2000-03-15  
NUMBER OF SEQ ID NOS: 37  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 7  
LENGTH: 239

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; TYPE: ERT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: GFP derivative
US-10-221-461-7

Query Match      99.1%; Score 1256; DB 14; Length 239;
Best Local Similarity 98.3%; Pred.No. 3e-111;
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MVSKEELFTGVDPILVELDGDVNGHKFVSVEGEGDATYKGLTLKFKICTTGKLPVPWPT 60
Db 1 MVSKEELFTGVDPILVELDGDVNGHKFVSVEGEGDATYKGLTLKFKICTTGKLPVPWPT 60
Qy 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKFECDTL 120
Db 61 LVTTLTYGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKFECDTL 120
Qy 121 VNRIELKGIDPKEDGNILGHKLEYNYNASHNYYIMADKQKNGIKVNFKIRHNIEDGSVOLA 180
Db 121 VNRIELKGIDPKEDGNILGHKLEYNYNASHNYYIMADKQKNGIKVNFKIRHNIEDGSVOLA 180
Qy 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLXGFVTAAGITLGMDELYK 239
Db 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITLGMDELYK 239
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Search completed: November 2, 2004, 13:21:36  
Job time : 131 secs